



IFWO

RAW SEQUENCE LISTING

DATE: 08/30/2004

PATENT APPLICATION: US/10/698,959

TIME: 12:53:32

Input Set : N:\Crif3\RULE60\10698959.raw

Output Set: N:\CRF4\08302004\J698959.raw

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1 <110> APPLICANT: Khoja, Hamiduddin
2   Shyamala, Venkatakrisna
3 <120> TITLE OF INVENTION: Isolated VSHK-1 Receptor Polypeptides
4   and Methods of Use Thereof
5 <130> FILE REFERENCE: 2300-1544
6 <140> CURRENT APPLICATION NUMBER: US/10/698,959
7 <141> CURRENT FILING DATE: 2003-10-30
8 <150> PRIOR APPLICATION NUMBER: US/09/433,360
9 <151> PRIOR FILING DATE: 1999-11-03
10 <150> PRIOR APPLICATION NUMBER: 60/107,112
11 <151> PRIOR FILING DATE: 1998-11-04
12 <150> PRIOR APPLICATION NUMBER: 60/114,856
13 <151> PRIOR FILING DATE: 1999-01-06
14 <160> NUMBER OF SEQ ID NOS: 14
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 1958
19 <212> TYPE: DNA
20 <213> ORGANISM: Homo sapiens
21 <400> SEQUENCE: 1
22   aaaagtagct ggagttaggt catttgattt tatactctgt actcaagact gctcctctct 60
23   gccgactaca acagattgga gccatggctt tggagcagaa ccagtcaaca gattattatt 120
24   atgaggaaaa tgaaatgaat ggcacttatg actacagtca atatgaactg atctgtatca 180
25   aagaagatgt cagagaattt gcaaaagttt tctcctctgt attcctcaca atagttttcg 240
26   tcattggact tgcaggcaat tccatggtag tggcaattta tgcctattac aagaaacaga 300
27   gaacaaaaac agatgtgtac atcctgaatt tggctgtagc agatttactc cttctattca 360
28   ctctgccttt ttgggctggt aatgcagttc atgggtgggt tttagggaaa ataagtgtca 420
29   aaataacttc agccttgtac acactaaact ttgtctctgg aatgcagttt ctggcttgta 480
30   tcagcataga cagatatgtg gcagtaacta aagtccccag ccaatcagga gtgggaaaac 540
31   catgctggat catctgtttc tgtgtctgga tggctgcat cttgctgagc atacccagc 600
32   tggtttttta tacagttaat gacaatgcta ggtgcattcc cattttcccc cgctacctag 660
33   gaacatcaat gaaagcattg attcaaagtc tagagatctg cattggattt gtagtaccct 720
34   ttcttattat gggggtgtgc tactttatca cagcaaggac actcatgaag atgccaacaa 780
35   ttaaaatata tcgaccctta aaagttctgc tcacagtcgt tatagttttc attgtcactc 840
36   aactgcctta taacattgtc aagttctgcc gagccataga catcatctac tccctgatca 900
37   ccagctgcaa catgagcaaa cgcattggaca tcgccatcca agtcacagaa agcatcgcac 960
38   tctttcacag ctgcctcaac ccaatccttt atgtttttat gggagcatct tcaaaaaact 1020
39   acgttatgaa agtggccaag aaatatgggt cctggagaag acagagacaa agtgtggagg 1080
40   agtttccttt tgattctgag ggtcctacag agccaaccag tacttttagc atttaaagg 1140
41   aaaactgctc tgccttttgc ttggatacat atgaatgatg ctttcccctc aaataaaaca 1200
42   tctgcattat tctgaaactc aaatctcaga cgccgtggtt gcaacttata ataaagaatg 1260
43   ggttggggga agggggagaa ataaaagcca agaagaggaa acaagataat aaatgtacaa 1320
44   aacatgaaaa ttaaatgaa caatatagga aaataattgt aacaggcata agtgaataac 1380

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45 actctgctgt aacgaagaag agctttgtgg tgataatttt gtatcttggt tgcagtgggtg 1440
46 cttatacaaaa tctacacaag tgataaaatg acacagaact atatacacac attgtaccaa 1500
47 tttcaatttc ctggttttga cattatagta taattatgta agatggaacc attggggaaa 1560
48 actgggtgaa gggtagccag gaccactctg taccatcttt gtaacttcct gtgaatttat 1620
49 aataatttca aaataaaaaca agttaaaaaa aaaccacta tgctataagt taggccatct 1680
50 aaaacagatt attaaagagg ttcatgttaa aaggcattta taattatttt taattatcta 1740
51 agttttaata caagaacgat ttccctgcat aatttttagta cttgaataag tatgcagcag 1800
52 aactccaact atcttttttc ctgttttttt taaatttgta agtaatttta taaaatccac 1860
53 ctctccaaa aaagcaataa aaaaaaaaaca aactataaaa aaaaaaaaaa aaaaaaaaaa 1920
54 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1958
56 <210> SEQ ID NO: 2
57 <211> LENGTH: 350
58 <212> TYPE: PRT
59 <213> ORGANISM: Homo sapiens
60 <400> SEQUENCE: 2
61 Met Ala Leu Glu Gln Asn Gln Ser Thr Asp Tyr Tyr Tyr Glu Glu Asn
62 1 5 10 15
63 Glu Met Asn Gly Thr Tyr Asp Tyr Ser Gln Tyr Glu Leu Ile Cys Ile
64 20 25 30
65 Lys Glu Asp Val Arg Glu Phe Ala Lys Val Phe Leu Pro Val Phe Leu
66 35 40 45
67 Thr Ile Val Phe Val Ile Gly Leu Ala Gly Asn Ser Met Val Val Ala
68 50 55 60
69 Ile Tyr Ala Tyr Tyr Lys Lys Gln Arg Thr Lys Thr Asp Val Tyr Ile
70 65 70 75 80
71 Leu Asn Leu Ala Val Ala Asp Leu Leu Leu Leu Phe Thr Leu Pro Phe
72 85 90 95
73 Trp Ala Val Asn Ala Val His Gly Trp Val Leu Gly Lys Ile Met Cys
74 100 105 110
75 Lys Ile Thr Ser Ala Leu Tyr Thr Leu Asn Phe Val Ser Gly Met Gln
76 115 120 125
77 Phe Leu Ala Cys Ile Ser Ile Asp Arg Tyr Val Ala Val Thr Lys Val
78 130 135 140
79 Pro Ser Gln Ser Gly Val Gly Lys Pro Cys Trp Ile Ile Cys Phe Cys
80 145 150 155 160
81 Val Trp Met Ala Ala Ile Leu Leu Ser Ile Pro Gln Leu Val Phe Tyr
82 165 170 175
83 Thr Val Asn Asp Asn Ala Arg Cys Ile Pro Ile Phe Pro Arg Tyr Leu
84 180 185 190
85 Gly Thr Ser Met Lys Ala Leu Ile Gln Met Leu Glu Ile Cys Ile Gly
86 195 200 205
87 Phe Val Val Pro Phe Leu Ile Met Gly Val Cys Tyr Phe Ile Thr Ala
88 210 215 220
89 Arg Thr Leu Met Lys Met Pro Asn Ile Lys Ile Ser Arg Pro Leu Lys
90 225 230 235 240
91 Val Leu Leu Thr Val Val Ile Val Phe Ile Val Thr Gln Leu Pro Tyr
92 245 250 255
93 Asn Ile Val Lys Phe Cys Arg Ala Ile Asp Ile Ile Tyr Ser Leu Ile
94 260 265 270

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```

95      Thr Ser Cys Asn Met Ser Lys Arg Met Asp Ile Ala Ile Gln Val Thr
96              275                      280                      285
97      Glu Ser Ile Ala Leu Phe His Ser Cys Leu Asn Pro Ile Leu Tyr Val
98              290                      295                      300
99      Phe Met Gly Ala Ser Phe Lys Asn Tyr Val Met Lys Val Ala Lys Lys
100             305                      310                      315                      320
101      Tyr Gly Ser Trp Arg Arg Gln Arg Gln Ser Val Glu Glu Phe Pro Phe
102              325                      330                      335
103      Asp Ser Glu Gly Pro Thr Glu Pro Thr Ser Thr Phe Ser Ile
104              340                      345                      350

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106 <210> SEQ ID NO: 3

107 <211> LENGTH: 23

108 <212> TYPE: DNA

109 <213> ORGANISM: Homo sapiens

110 <400> SEQUENCE: 3

111 actaccaaca ggttggtact tta

23

113 <210> SEQ ID NO: 4

114 <211> LENGTH: 22

115 <212> TYPE: DNA

116 <213> ORGANISM: Homo sapiens

117 <400> SEQUENCE: 4

118 ctttgccatc tagagtggag cc

22

120 <210> SEQ ID NO: 5

121 <211> LENGTH: 82

122 <212> TYPE: DNA

123 <213> ORGANISM: Artificial Sequence

124 <220> FEATURE:

125 <221> NAME/KEY: misc_feature

126 <222> LOCATION: (1)...(82)

127 <223> OTHER INFORMATION: n = A,T,C or G

128 <223> OTHER INFORMATION: encodes synthetic peptide

W--> 129 <400> 5

W--> 130 ctttctattc tcaactccgct gaannsnnsn nsnnnsnnnn snnsnnsnns nnsnnsnnsn

60

131 nsnnscgcgc tccacctcca cc

82

133 <210> SEQ ID NO: 6

134 <211> LENGTH: 93

135 <212> TYPE: DNA

136 <213> ORGANISM: Artificial Sequence

137 <220> FEATURE:

138 <221> NAME/KEY: misc_feature

139 <222> LOCATION: (1)...(93)

140 <223> OTHER INFORMATION: n = inosine

141 <223> OTHER INFORMATION: encodes synthetic peptide

W--> 142 <400> 6

W--> 143 ggccggtgga ggtggaggcg gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn

60

144 nnnnnnttca gcggagtga aatagaaagg tac

93

146 <210> SEQ ID NO: 7

147 <211> LENGTH: 36

148 <212> TYPE: DNA

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149 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: primer
152 <400> SEQUENCE: 7
153      gctgccccgag agatctgtat atatgagtaa acttgg      36
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: primer
161 <400> SEQUENCE: 8
162      gcaggctcgg gaattcggga aatgtgcgcg gaaccc      36
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 21
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: mutagenic oligonucleotides
170 <400> SEQUENCE: 9
171      aaacttcctc atgaaaaagt c      21
173 <210> SEQ ID NO: 10
174 <211> LENGTH: 25
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: mutagenic oligonucleotides
179 <400> SEQUENCE: 10
180      agaataaaaa ggtaccacta aagga      25
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 39
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: mutagenic oligonucleotides
188 <400> SEQUENCE: 11
189      tttagtggta cctttctatt ctactcggc cgaaactgt      39
191 <210> SEQ ID NO: 12
192 <211> LENGTH: 24
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: mutagenic oligonucleotides
197 <400> SEQUENCE: 12
198      aaagcgcagt ctctgaattt accg      24
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 22
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence

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Input Set : N:\Crf3\RULE60\10698959.raw

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204 <220> FEATURE:
205 <223> OTHER INFORMATION: primers
206 <400> SEQUENCE: 13
207 tcgaaagcaa gctgataaac cg 22
209 <210> SEQ ID NO: 14
210 <211> LENGTH: 23
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: primers
215 <400> SEQUENCE: 14
216 acagacagcc ctcatagtta gcg 23

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/698,959

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Input Set : N:\Crf3\RULE60\10698959.raw
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 24,25,27,28,30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52

Seq#:5; N Pos. 54,55,57,58,60,61,63,64

Seq#:6; N Pos. 22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41

Seq#:6; N Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61

Seq#:6; N Pos. 62,63,64,65,66

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/698,959

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Input Set : N:\Crf3\RULE60\10698959.raw

Output Set: N:\CRF4\08302004\J698959.raw

L:129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6